# OBJECT POSITION DETECTOR WITH EDGE MOTION FEATURE

**Patent number:** DE69521617D

**Publication date:** 2001-08-09

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**Classification:**

**- International:** G06F3/033; G06K11/16

**- european:**

**Application number:** DE19956021617 19950901

**Priority number(s):** US19940300630 19940902; WO1995US11177 19950901

**Also published as:**

WO9607966 (A1)
EP0777875 (A1)
EP0777875 (B1)

Abstract not available for DE69521617D
Abstract of correspondent: **WO9607966**

A proximity sensor system includes a sensor matrix array having a characteristic capacitance on horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object or objects to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by circuitry to develop electrial signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed. The speed of the cursor movement depends on the one of the display it resides.